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DATE: Thursday, September 16, 2004 [Printable Copy](#) [Create Case](#)

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DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

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<u>L5</u>	L4 and (feedback or review\$3)	53	<u>L5</u>
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<u>L3</u>	document\$1 and (transform\$7 same rule\$1)	976	<u>L3</u>
<u>L2</u>	L1 and (transform\$7 same rule\$1)	5	<u>L2</u>
<u>L1</u>	document\$1 same collaboration	362	<u>L1</u>

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☐ 1. Document ID: US 6671818 B1

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L2: Entry 1 of 5

File: USPT

Dec 30, 2003

US-PAT-NO: 6671818

DOCUMENT-IDENTIFIER: US 6671818 B1

**** See image for Certificate of Correction ****

TITLE: Problem isolation through translating and filtering events into a standard object form in a network based supply chain

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mikurak; Michael G.	Hamilton	NJ		

US-CL-CURRENT: 714/4; 714/43, 714/48

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 2. Document ID: US 6640145 B2

L2: Entry 2 of 5

File: USPT

Oct 28, 2003

US-PAT-NO: 6640145

DOCUMENT-IDENTIFIER: US 6640145 B2

TITLE: Media recording device with packet data interface

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 3. Document ID: US 6343377 B1

L2: Entry 3 of 5

File: USPT

Jan 29, 2002

US-PAT-NO: 6343377

DOCUMENT-IDENTIFIER: US 6343377 B1

TITLE: System and method for rendering content received via the internet and world wide web v delegation of rendering processes

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 4. Document ID: US 5758351 A

L2: Entry 4 of 5

File: USPT

May 26, 1998

US-PAT-NO: 5758351

DOCUMENT-IDENTIFIER: US 5758351 A

TITLE: System and method for the creation and use of surrogate information system objects

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: NN9407481

L2: Entry 5 of 5

File: TDBD

Jul 1, 1994

TDB-ACC-NO: NN9407481

DISCLOSURE TITLE: Functional Modeling using Object Collaboration Diagram

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, July 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 7

PAGE NUMBER: 481 - 486

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc
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Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 6782003 B1

Using default format because multiple data bases are involved.

L8: Entry 1 of 12

File: USPT

Aug 24, 2004

US-PAT-NO: 6782003

DOCUMENT-IDENTIFIER: US 6782003 B1

TITLE: Data management system and method

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giroux; Philippe	Ottawa			CA
Walsh; Sandy	Waverly			CA

US-CL-CURRENT: 370/466; 709/219

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6671818 B1

L8: Entry 2 of 12

File: USPT

Dec 30, 2003

US-PAT-NO: 6671818

DOCUMENT-IDENTIFIER: US 6671818 B1

**** See image for Certificate of Correction ****

TITLE: Problem isolation through translating and filtering events into a standard object form in a network based supply chain

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6640249 B1

L8: Entry 3 of 12

File: USPT

Oct 28, 2003

US-PAT-NO: 6640249

DOCUMENT-IDENTIFIER: US 6640249 B1

**** See image for Certificate of Correction ****

TITLE: Presentation services patterns in a netcentric environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6640244 B1

L8: Entry 4 of 12

File: USPT

Oct 28, 2003

US-PAT-NO: 6640244

DOCUMENT-IDENTIFIER: US 6640244 B1

TITLE: Request batcher in a transaction services patterns environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMNC	Draw Desc	Image
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☐ 5. Document ID: US 6615253 B1

L8: Entry 5 of 12

File: USPT

Sep 2, 2003

US-PAT-NO: 6615253

DOCUMENT-IDENTIFIER: US 6615253 B1

**** See image for Certificate of Correction ****

TITLE: Efficient server side data retrieval for execution of client side applications

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMNC	Draw Desc	Image
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☐ 6. Document ID: US 6601234 B1

L8: Entry 6 of 12

File: USPT

Jul 29, 2003

US-PAT-NO: 6601234

DOCUMENT-IDENTIFIER: US 6601234 B1

TITLE: Attribute dictionary in a business logic services environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMNC	Draw Desc	Image
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☐ 7. Document ID: US 6601192 B1

L8: Entry 7 of 12

File: USPT

Jul 29, 2003

US-PAT-NO: 6601192

DOCUMENT-IDENTIFIER: US 6601192 B1

TITLE: Assertion component in environment services patterns

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMNC	Draw Desc	Image
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☐ 8. Document ID: US 6578068 B1

L8: Entry 8 of 12

File: USPT

Jun 10, 2003

US-PAT-NO: 6578068

DOCUMENT-IDENTIFIER: US 6578068 B1

TITLE: Load balancer in environment services patterns

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 9. Document ID: US 6571282 B1

L8: Entry 9 of 12

File: USPT

May 27, 2003

US-PAT-NO: 6571282

DOCUMENT-IDENTIFIER: US 6571282 B1

TITLE: Block-based communication in a communication services patterns environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 10. Document ID: US 6549949 B1

L8: Entry 10 of 12

File: USPT

Apr 15, 2003

US-PAT-NO: 6549949

DOCUMENT-IDENTIFIER: US 6549949 B1

TITLE: Fixed format stream in a communication services patterns environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 11. Document ID: US 6529909 B1

L8: Entry 11 of 12

File: USPT

Mar 4, 2003

US-PAT-NO: 6529909

DOCUMENT-IDENTIFIER: US 6529909 B1

** See image for Certificate of Correction **

TITLE: Method for translating an object attribute converter in an information services pattern environment

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 12. Document ID: US 5838973 A

L8: Entry 12 of 12

File: USPT

Nov 17, 1998

US-PAT-NO: 5838973

DOCUMENT-IDENTIFIER: US 5838973 A

TITLE: System and method for interactively transforming a system or process into a visual representation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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121 [A Web-based approach to interactive visualization in context](#)

Audris Mockus, Stacie Hibino, Todd Graves

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Full text available:  [pdf\(905.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper proposes a framework for easily integrating and controlling information visualization (infoVis) components within web pages to create powerful interactive "live" documents, or LiveDocs. The framework includes a set of infoVis components which can be placed and linked within a standard HTML document, initialized to focus on key analysis results, and directly manipulated by readers to explore and analyze data further. In addition, authors can script the manipulation of ...

Keywords: authoring visualization web pages, live documents, web-based information visualization

122 [Session summaries from the 17th symposium on operating systems principle \(SOSP'99\)](#)

Jay Lepreau, Eric Eide

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Full text available:  [pdf\(3.15 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

123 [Teach++: a cooperative distance learning and teaching environment](#)

Maria Barra, Giuseppe Cattaneo, Umberto Ferraro Petrillo, Vincenzo Garofalo, Claudia Rossi, Vittorio Scarano

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available:  [pdf\(633.43 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

124 [Charting past, present, and future research in ubiquitous computing](#)

Gregory D. Abowd, Elizabeth D. Mynatt

March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Full text available:  [pdf\(730.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The proliferation of computing into the physical world promises more than the ubiquitous availability of computing infrastructure; it suggest new paradigms of interaction inspired


by constant access to information and computational capabilities. For the past decade, application-driven research on ubiquitous computing (ubiquitous computing) has pushed three interaction themes: natural interfaces, context-aware applications, and automated capture and access. To chart a course ...

Keywords: augmented reality, capture and access, context-aware applications, evaluation, everyday computing, natural interfaces, social implications, ubiquitous computing, user interfaces

125 Designing a flexible services-based architecture for Internet applications

Vijay Mehra, Richard K. Walker, Jeffrey S. Brashear, Mohan Tavorath

January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available:  [pdf\(35.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article describes a flexible architecture for developing services-based business applications that use component-based architectural services to demarcate the application into various tiers that enable the decoupling of each layer, both logically and physically. This provides the speed and flexibility needed to embrace new product ideas, channels, and markets.

126 Hypermedia on the Web: what will it take?

Fabio Vitali, Michael Bieber

December 1999 **ACM Computing Surveys (CSUR)**


Full text available:  [pdf\(30.72 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: World Wide Web, browsers, hypermedia, hypertext, hypertext functionality, link attributes, linkbases

127 Versioning hypermedia

Fabio Vitali


December 1999 **ACM Computing Surveys (CSUR)**

Full text available:  [pdf\(33.88 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

128 User population and user contributions to virtual publics: a systems model

Quentin Jones, Sheizaf Rafaeli

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper provides a comprehensive review of empirical research into user contributions to computer-mediated discourse in public cyber-spaces, referred to here as virtual publics. This review is used to build a systems model of such discourse. The major components of the model are i) critical mass, ii) social loafing, and iii) the collective impact of individual cognitive constraints on the processing of group messages. By drawing these three components into a single model it becomes possible ...

Keywords: computer mediated communication, coordination theory, discourse structures, group communication, information overload, systems theory, virtual communities

129 A system architecture for the extension of structured information spaces by coordinated CSCW services

Peter Manhart

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(1.76 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The World Wide Web is an emerging platform for information systems; however established system architectures for web systems focus mainly on the creation and storage of consistent hypermedia information structures and on the efficient distribution of the resulting documents. The interaction between the information users is seldom supported. As many application scenarios profit greatly from human interaction, the paper presents a platform- and application-independent generic system ...

Keywords: CSCW services, group interaction, system architecture, web-based human interaction

130 Concept indexing

Angi Voss, Keiichi Nakata, Marcus Juhnke

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Marking text in a document is a convenient way of identifying bits of knowledge that are relevant for the reader, a colleague or a larger group. Based on such markings, networks of concepts with hyperlinks to their occurrences in a collection of documents can be developed. On the Internet, marked documents can easily be shared, concepts can be constructed collaboratively and the concept-document network can be used for navigation and direct access. Text marking, grounded concepts and the In ...

Keywords: collaboration, concepts, documents, knowledge management, software agents, text marking

131 Intertwining perspectives and negotiation

Gerry Stahl, Thomas Herrmann

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(1.87 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Cooperative work typically involves both individual and group activities. Computer support for perspectives allows people to view and work in a central information repository within personal contexts. However, work in personal perspectives encourages divergent thinking. Negotiation in group perspectives is needed to converge on consensus, shared understanding, and cooperation. Negotiation processes on their own can delay progress. By intertwining perspectives ...

Keywords: CSCL, WebGuide, negotiation, perspectives

132 Facilitating orientation in shared hypermedia workspaces

Jörg M. Haake

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(1.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Shared workspaces are an important means for supporting long-term synchronous and asynchronous collaboration. Shared workspaces themselves become difficult to manage due to increasing size and constant change. This is especially true for shared hypermedia workspaces. Thus means for managing the shared hypermedia workspace in terms of keeping an overview of the group's work and coordinating changes become necessary. In this paper we propose a shared hypermedia workspace model repre ...

Keywords: awareness, collaboration support, cooperative work, coordination, orientation, shared hypermedia workspace

133 A framework for assisted exploration with collaboration

Eric A. Wernert, Andrew J. Hanson

October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years**

Full text available:  pdf(272.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We approach the problem of exploring a virtual space by exploiting positional and camera-model constraints on navigation to provide extra assistance that focuses the user's explorational wanderings on the task objectives. Our specific design incorporates not only task-based constraints on the viewer's location, gaze, and viewing parameters, but also a personal "guide" that serves two important functions: keeping the user oriented in the navigation space, and "pointing&rdqu

Keywords: VRML, collaboration, exploration, locomotion, navigation, virtual reality, wayfinding

134 Practical experience with an application extractor for Java

Frank Tip, Chris Laffra, Peter F. Sweeney, David Streeter

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  pdf(2.31 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Java programs are routinely transmitted over low-bandwidth network connections as compressed class file archives (i.e., zip files and jar files). Since archive size is directly proportional to download time, it is desirable for applications to be as small as possible. This paper is concerned with the use of program transformations such as removal of dead methods and fields, inlining of method calls, and simplification of the class hierarchy for reducing application size. Such "extract ...

135 Information technology and organizational change

Patricia Carlson

October 1999 **Proceedings of the 17th annual international conference on Computer documentation**

Full text available:  pdf(1.41 MB)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

My paper considers the impact of emerging, integrated information technology (IT) and information systems (IS) for a research and development organization. Background research was conducted during the period of 15 June - 28 August, as part of an Army Summer Faculty Research and Engineering Program grant. More specifically, this document discusses the interaction of corporate culture, leadership/management, human resources, and advanced networking and web-based applications (more commonly ca ...


Keywords: information technology, intranet, workplace re-engineering

136 Interacting in chaos

Dan R. Olsen

September 1999 **interactions**, Volume 6 Issue 5Full text available:  [pdf\(587.03 KB\)](#)
 [html\(50.47 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**137 Technical opinion: getting the best of both real and virtual worlds**

Eric W. Tatham

September 1999 **Communications of the ACM**, Volume 42 Issue 9Full text available:  [pdf\(108.88 KB\)](#)
 [html\(14.52 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**138 Tools and approaches for developing data-intensive Web applications: a survey**

Piero Fraternali


September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available:  [pdf\(524.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characterizing ...

Keywords: HTML, Intranet, WWW, application, development

139 Introduction to the Electronic Symposium on Computer-Supported Cooperative Work

Kevin L. Mills


June 1999 **ACM Computing Surveys (CSUR)**Full text available:  [pdf\(94.13 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer-supported cooperative work (CSCW) holds great importance and promise for modern society. This paper provides an overview of seventeen papers comprising a symposium on CSCW. The overview also discusses some relationships among the contributions made by each paper, and places those contributions into a larger context by identifying some of the key challenges faced by computer science researchers who aim to help us work effectively as teams mediated through networks of computers. The ...

Keywords: asynchronous collaboration, computer-supported collaborative work, human-computer interaction, information management, multimedia collaboration, multimodal collaboration

140 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2Full text available:  [pdf\(233.31 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a

concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

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